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Day : Thursday
Date: 7/29/2004
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# Inventor Name Search Result

Your Search was:

Last Name = GERMEYER
First Name = SABINE

| Application# | Patent# | Status | Date Filed | Title | Inventor Name 7 |
|---|---|---|---|---|---|
| 60368416 | Not Issued | 159 | 03/28/2002 | FLUORENECARBOXYLIC ACID ESTERS, PROCESS FOR THE MANUFACTURE THEREOF AND USE THEREOF AS MEDICAMENTS | GERMEYER, SABINE |
| 60368238 | Not Issued | 159 | 03/28/2002 | NEW XANTHENECARBOXYLIC ACID ESTERS, PROCESS FOR THE MANUFACTURE THEREOF AND USE THEREOF AS MEDICAMENTS | GERMEYER, SABINE |
| 60368237 | Not Issued | 159 | 03/28/2002 | NEW ANTICHOLINERGICS, PROCESS FOR THE MANUFACTURE THEREOF AND USE THEREOF AS MEDICAMENTS | GERMEYER, SABINE |
| 10772797 | Not Issued | 030 | 02/05/2004 | FLUORENECARBOXYLIC ACID ESTERS, PROCESS FOR THE MANUFACTURE THEREOF, AND USE THEREOF AS MEDICAMENTS | GERMEYER, SABINE |
| 10345911 | 6696462 | 150 | 01/16/2003 | ANTICHOLINERGICS, PROCESSES FOR THE PREPARATION THEREOF, AND PHARMACEUTICAL COMPOSITIONS | GERMEYER, SABINE |
| 10342080 | Not Issued | 071 | 01/14/2003 | XANTHENECARBOXYLATES, PROCESSES FOR PREPARING THEM, AND THEIR USE AS PHARMACEUTICAL COMPOSITIONS | GERMEYER, SABINE |
| 10335795 | Not Issued | 094 | 01/02/2003 | FLUORENECARBOXYLIC ACID ESTERS, PROCESS FOR THE MANUFACTURE THEREOF, AND USE THEREOF AS | GERMEYER, SABINE |

MEDICAMENTS

# Inventor Search Completed: No Records to Display.

**Search Another: Inventor**

| Last Name | First Name |
|---|---|
| Germeyer | Sabine |

Search

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STN - STRUCTURE SEARCH
7-29-04

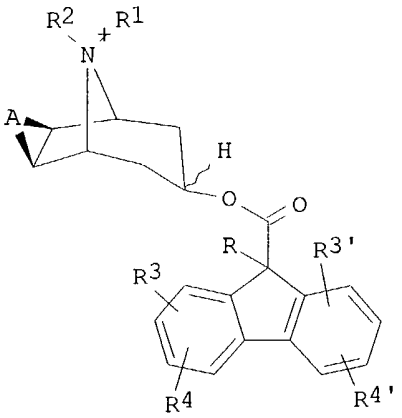
=> d ibib abs hitstr 1-9

Inventor?

L4 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:610447 CAPLUS
DOCUMENT NUMBER: 139:164908
TITLE: Methods for the production of novel fluorenecarboxylic acid esters and their use as anticholinergic pharmaceuticals
INVENTOR(S): Pestel, Sabine; Reichl, Richard; Meissner, Helmut; Pohl, Gerald; Pieper, Michael P.; Germeyer, Sabine; Speck, Georg; Morschhaeuser, Gerd
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G., Germany
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2003064419 | A1 | 20030807 | WO 2003-EP534 | 20030121 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| DE 10203741 | A1 | 20030814 | DE 2002-10203741 | 20020131 |
| US 2003199539 | A1 | 20031023 | US 2003-335795 | 20030102 |

PRIORITY APPLN. INFO.: DE 2002-10203741 A 20020131
US 2002-368416P P 20020328
OTHER SOURCE(S): CASREACT 139:164908; MARPAT 139:164908
GI

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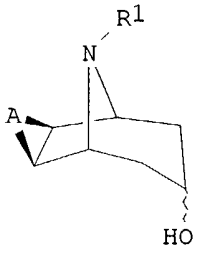


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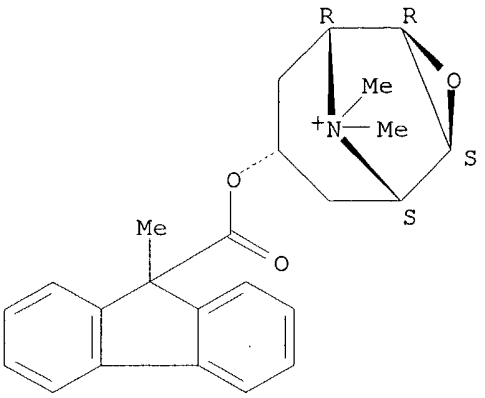



● $Br^-$

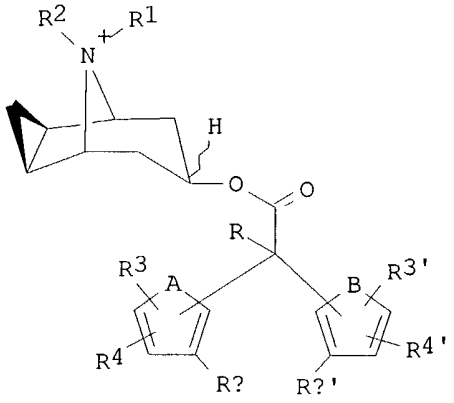
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:610446 CAPLUS
DOCUMENT NUMBER: 139:164907
TITLE: Method for producing cyclopropanotropanol esters for use as anticholinergic agents
INVENTOR(S): Speck, Georg; Eickmeier, Christian; Pestel, Sabine; Germeyer, Sabine; Pieper, Michael P.; Breitfelder, Steffen; Grauert, Matthias
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G., Germany
SOURCE: PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2003064418 | A1 | 20030807 | WO 2003-EP533 | 20030121 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| DE 10203749 | A1 | 20030814 | DE 2002-10203749 | 20020131 |
| US 2003207912 | A1 | 20031106 | US 2003-345911 | 20030116 |
| US 6696462 | B2 | 20040224 | | |

PRIORITY APPLN. INFO.: DE 2002-10203749 A 20020131
US 2002-368237P P 20020328

OTHER SOURCE(S): CASREACT 139:164907; MARPAT 139:164907
GI

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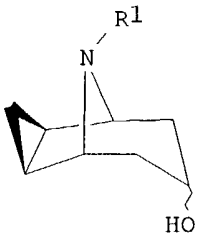



II

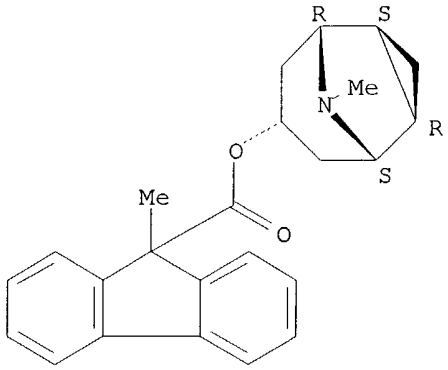
AB The invention relates to novel anticholinergic agents I·X- [X - = neg. charged anion; A, B = O, S, NH, CH2, CH:CH, N-(C1-4-alkyl); R = H, OH, C1-4-alkyl, C1-4-alkoxy, (C1-4-alkylene)-halogen, O-(C1-4-alkyl)-halogen, (C1-4-alkylene)-OH, CF3, CHF2, (C1-4-alkylene)-(C1-4-alkoxy), OC(:O)-(C1-4-alkyl), OC(:O)-(C1-4-alkylene)-halogen, (C1-4-alkylene)-(C3-6-cycloalkyl), OC(:O)CF3, halogen; R1, R2 = C1-5-alkyl (optionally substitute with C3-6-cycloalkyl, OH, halogen); R1R2 = C3-5-alkylene; R3, R3', R4, R4' = H, C1-4-alkyl, OH, CF3, CHF2, CN, NO2, halogen; Rx, Rx' = H, C1-4-alkyl, OH, CF3, CHF2, CN, NO2, halogen; RxRx' = single or double bond, O, S, NH, CH2, CH2CH2, N(C1-4-alkyl), CH(C1-4-alkyl), C(C1-4-alkyl)2], their optical isomers, mixts., enantiomers and racemates, to a method for producing said agents from II and to the use thereof as medicaments. Thus, I·Br- [A = B = CH:CH, R = OH, R1 = R2 = Me, R3 = R4 = R3' = R4' = Rx = Rx' = H] was prepared from PH2C(OH)CO2H via esterification with MeI and DBU in MeCN, transesterification with II (α-OH, R1 = Me) and sodium metal in a melt and N-methylation with MeBr in MeCN. The muscarinic acetylcholine receptor binding ability of I·X- was determined (no data). Pharmaceutical formulations containing I·X- are described.

IT **575463-99-9P**, 9-Methyl-9-fluorenecarboxylic acid cyclopropanotropine ester **575464-01-6P**, 9-Hydroxy-9-fluorenecarboxylic acid cyclopropanotropine ester
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and N-methylation of; preparation of cyclopropanotropanol esters for
use as anticholinergic agents)

RN 575463-99-9 CAPLUS

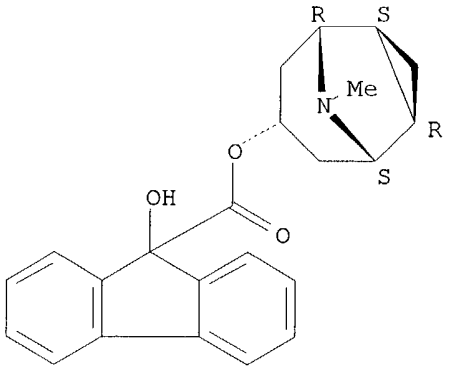
CN 9H-Fluorene-9-carboxylic acid, 9-methyl-, (1α,2β,4β,5.alpha.,7β)-9-methyl-9-azatricyclo[3.3.1.02,4]non-7-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



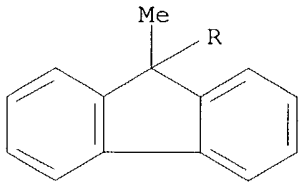

RN 575464-01-6 CAPLUS
CN 9H-Fluorene-9-carboxylic acid, 9-hydroxy-, (1α,2β,4β,5.alp
ha.,7β)-9-methyl-9-azatricyclo[3.3.1.02,4]non-7-yl ester (9CI) (CA
INDEX NAME)

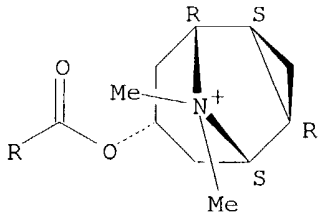
Relative stereochemistry.




IT **573987-30-1P 573987-32-3P**
RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of cyclopropanotropanol esters for use as anticholinergic agents)
RN 573987-30-1 CAPLUS
CN 9-Azoniatricyclo[3.3.1.02,4]nonane, 9,9-dimethyl-7-[[(9-methyl-9H-fluoren-9-yl)carbonyl]oxy]-, bromide, (1α,2β,4β,5α,7β)-
(9CI) (CA INDEX NAME)

Relative stereochemistry.

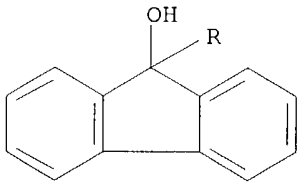


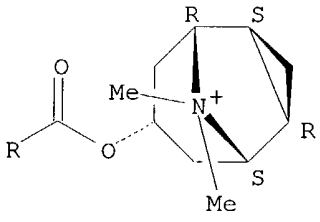




● $Br^-$

RN 573987-32-3 CAPLUS
CN 9-Azoniatricyclo[3.3.1.02,4]nonane, 7-[[(9-hydroxy-9H-fluoren-9-yl)carbonyl]oxy]-9,9-dimethyl-, bromide, (1α,2β,4β,5.alpha.,7β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.




● $Br^-$

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

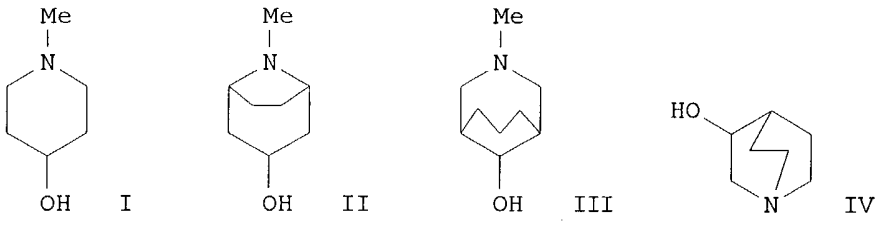
L4 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:159472 CAPLUS
DOCUMENT NUMBER: 130:251985
TITLE: Stereochemistry of the heterocyclic alcohols

containing piperidine unit

AUTHOR(S): Gao, Shou-Hai; Hu, Wen-Xiang; Yun, Liu-Hong
CORPORATE SOURCE: Institute of Pharmacology and Toxicology, Academy of Military Medical Sciences, Beijing, 100850, Peop. Rep. China

SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1999), 20(2), 232-236
CODEN: KTHPDM; ISSN: 0251-0790
PUBLISHER: Gaodeng Jiaoyu Chubanshe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

GI

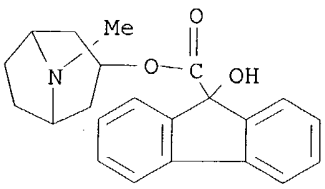



AB The stereochem. of the heterocyclic alcs. (1-4 = I-IV) containing piperidine unit was studied on the basis of the results of mol. mechanics and quantum chemical calcns. The results showed that there existed non-classical orbital super-conjugated interactions between the nitrogen atom and oxygen atom which caused the conformations to be more stable when the hydroxylic group lay at axial than at equatorial with respect to the piperidine ring in compound 1 and compound 3. If the axial hydrogen atoms at C2 and C6 positions in the piperidine ring were substituted, or the mol. existed in the polar solns., this non-classical orbital super-conjugated interactions would be much weaker. In this case, the conformations were more stable when the hydroxylic group was equatorial.

IT **221671-26-7**
RL: PRP (Properties)
(mol. mechanics and AM1 study of the conformation of heterocyclic piperidine alcs. and of piperidinyl hydroxycarboxylates)

RN 221671-26-7 CAPLUS

CN 9H-Fluorene-9-carboxylic acid, 9-hydroxy-, 8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester (9CI) (CA INDEX NAME)




L4 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1973:461408 CAPLUS
DOCUMENT NUMBER: 79:61408
TITLE: Acid-base properties of atropine, scopolamine, and some glycolic acid esters
AUTHOR(S): Meyerhoffer, Anita; Wahlberg, Olof
CORPORATE SOURCE: Res. Inst. Natl. Def., Sundbyberg, Swed.

SOURCE: Acta Chemica Scandinavica (1947-1973) (1973), 27(3), 868-74
CODEN: ACSAA4; ISSN: 0001-5393
DOCUMENT TYPE: Journal
LANGUAGE: English

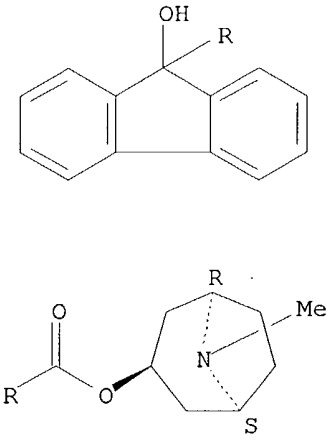
AB Atropine (I) [51-55-8], scopolamine-HBr [114-49-8], and 9 other related anticholinergic compds. had pKa values of 8-10, as determined by emf titrns. in 0.1 M NaCl at 25.deg..

IT **16658-61-0**
RL: BIOL (Biological study)
(acid-base properties of)

RN 16658-61-0 CAPLUS

CN 9H-Fluorene-9-carboxylic acid, 9-hydroxy-, 8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester, hydrochloride, endo- (9CI) (CA INDEX NAME)

Relative stereochemistry.




L4 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1970:475272 CAPLUS
DOCUMENT NUMBER: 73:75272

TITLE: Central and peripheral effects of anticholinergic compounds

AUTHOR(S): Albanus, Lennart
CORPORATE SOURCE: Div. Exptl. Def. Med., Res. Inst. Nat. Def., Stockholm, Swed.

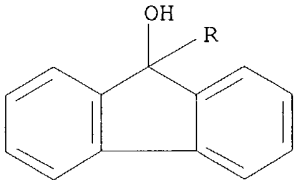
SOURCE: Acta Pharmacologica et Toxicologica (1970), 28(4), 305-26
CODEN: APTOA6; ISSN: 0001-6683
DOCUMENT TYPE: Journal
LANGUAGE: English

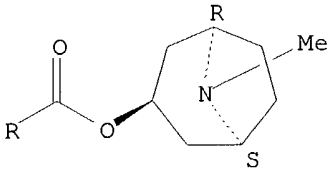
AB 3-Tropyl benzilate, 1-methyl-4-piperidyl benzilate, and 3-quinuclidinylcyclopentyl phenylglycolate, at 10 μg/kg, s.c., caused behavioral changes, especially in locomotion, similar to those induced by atropine and scopolamine in dogs. All compds. exhibited anticholinergic activity, the most effective one being 3-quinuclidinyl-2-thienyl phenylglycolate, which also had the most potent behavioral effect.

IT **29673-84-5**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmacology of)

RN 29673-84-5 CAPLUS
CN 1αH,5αH-Tropan-3α-ol, 9-hydroxyfluorene-9-carboxylate (ester) (8CI) (CA INDEX NAME)

Relative stereochemistry.



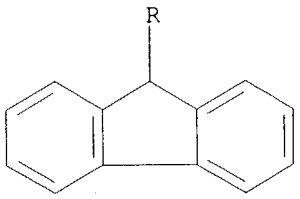



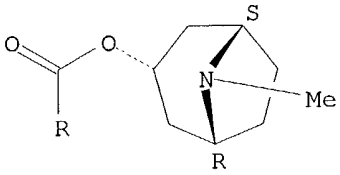

L4 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1970:89708 CAPLUS
DOCUMENT NUMBER: 72:89708
TITLE: Structure-activity relations. I. Series of antagonists of acetylcholine and histamine at the postganglionic receptors
AUTHOR(S): Bowden, Keith; Young, Rodney Christopher
CORPORATE SOURCE: Dep. Chem., Univ. Essex, Colchester, UK
SOURCE: Journal of Medicinal Chemistry (1970), 13(2), 225-30
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A series of aminoester hydrochlorides (RCO2CH2CH2NEt2.HCl), which are antagonists of acetylcholine and histamine at postganglionic receptors, were synthesized by conventional methods. Their activity was successfully correlated by Hansch linear free energy relations involving polar, steric, and partition substituent consts. The results are related to receptor-drug interactions.

IT **16658-62-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(antagonist activity of, mol. structure in relation to)
RN 16658-62-1 CAPLUS
CN 1αH,5αH-Tropan-3α-ol, fluorene-9-carboxylate (ester), hydrochloride (8CI) (CA INDEX NAME)

Relative stereochemistry.




● HCl

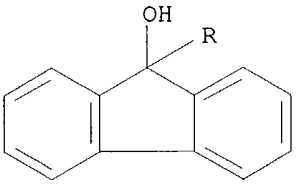
L4 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1967:473724 CAPLUS
DOCUMENT NUMBER: 67:73724
TITLE: Esters of tropine, 1-(diethylamino)-2-propanol, and β-(diethylamino)ethanol
AUTHOR(S): Zakharova, N. A.; Khromov-Borisov, N. V.; Indenbom, M. L.
SOURCE: Zhurnal Organicheskoi Khimii (1967), 3(6), 1128-36
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB A series of tropine (I), MeCH(OH)CH2NEt2 (II), and CH2(OH)CH2NEt2 (III) esters with Ph2C(OH)CO2H (IV), Ph(p-MeOC6H4)C(OH)CO2H (V), (p-MeOC6H4)2C(OH)CO2H (VI), PhCClCO2H (VII), 2,2'-biphenyleneglycolic acid (VIII), 2,2'-biphenyleneacetic acid (IX), Ph(p-MeOC6H4)-CHCO2H (X), and (p-MeOC6H4)2CHCO2H (XI) was prepared The compds. were of potential interest as anticonvulsants, in treatment of parkinsonism, and as central cholinolytic agents. The esters were prepared by transesterification of (for example) IV Et ester with I.HCl salt; IV Et ester was prepared from its Ag salt and EtI. Thus, 0.1 mole IV solution in 150 ml. absolute alc. was combined with 0.1 mole KOH and the mixture evaporated to dryness. The residue was dissolved in water, charcoaled, and boiled with 0.1 mole AgNO3. IV Ag salt precipitated in 85-97% yield. To a mixture of 0.05 mole IV Ag salt a solution of 0.05 mole EtI in 72 ml. anhydrous benzene was added. The mixture was heated .apprx.30 min., filtered, and distilled to give 72.2% yield of IV Et ester, b3-5 150-75°. Similarly other Et esters were prepared (acid, ester % yield, b.p./mm. or m.p. given): V, 77.4, 197-202°/5; VI, 81.5, 215-20°/3-5 (m. 92-8°); VIII, 69.0, m. 87-90°. A mixture of 0.04 g. I, 0.08 g. Na, and 0.02 mole VI Et ester was kept at 130-40° 4-5 hrs. in vacuo increasing from 30-40 mm. to 8-12 mm. The melt was stirred with 120-150 ml. HCl solution The organic layer was separated [1.8 g. of an insol. precipitate was filtered to give (p-MeOC6H4)2CO m. 143-4° (alc.)]. The aqueous layer was boiled with charcoal, filtered, and neutralized with 2N NH4OH solution in the cold. The precipitate was filtered

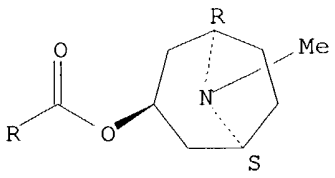
off, redissolved in absolute alc., and acidified with alc. HCl solution to give 49.4% ester [m. 200-2° (absolute alc.)] of VI and tropinium chloride. Similarly, other esters of tropinium salt were prepared (acid and % yield and m.p. of ester given): IV, 28.0, 238° (absolute alc.); V, 48.2, 194-5° (Et2O-alc.); VIII (VIIIa), 48.9, 240-1° (Et2O-alc.). The ester [m. 207-10° (Me2CO)], of IX and tropinium chloride, was prepared by a direct reaction between I and tech. IX chloride, m. 65-73°, in 74.4% yield. A mixture of 9 g. ester of IV and tropinium-chloride and 16.5 ml. SOCl2 was boiled 4 hrs. Removal of excess SOCl2, extraction with acetone, and crystallization of the residue gave 62% ester [m. 126-8° (benzene-ligroine)] of VII and tropinium chloride. A mixture of 0.04 mole V, 30 g. SnCl2, 80 ml. AcOH, and 60 ml. HCl was stirred 2 hrs. at 30-5° to give 68.5% X. Similarly, XI was prepared in 61% yield. The acids were converted to the chlorides with SOCl2 in 84% (X chloride) and 80% (XI chloride) yields. Esterification of 0.05 mole II with equivalent of X by heating 2 hrs. 115-25° in 15 ml. PhMe gave 53.6% ester of X and II m. 133-5° (Et2O-alc.). In the same way the ester of XI and II, m. 112-14° (Et2O-alc.), and ester of IX and II, m. 165-6° (acetone) were prepared in 30.8 and 77.1% yields, resp. Condensation of Cl(CH2)2NEt2 with IX, X, or XI by boiling in PhMe gave the corresponding ester of IX and III m. 143-4° (PhMe) (65.5%); ester of X and III m. 128-30° (benzene-ligroine) (57.4%), and ester of XI and III m. 155-6° (benzene-ligroine) (60.5%).

IT **16658-61-0P 16658-62-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 16658-61-0 CAPLUS
CN 9H-Fluorene-9-carboxylic acid, 9-hydroxy-, 8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester, hydrochloride, endo- (9CI) (CA INDEX NAME)

Relative stereochemistry.

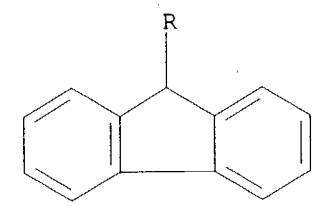


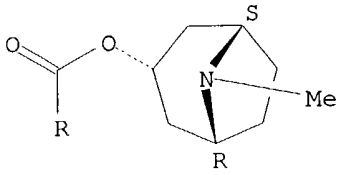




● HCl

RN 16658-62-1 CAPLUS
CN 1αH,5αH-Tropan-3α-ol, fluorene-9-carboxylate (ester), hydrochloride (8CI) (CA INDEX NAME)

Relative stereochemistry.



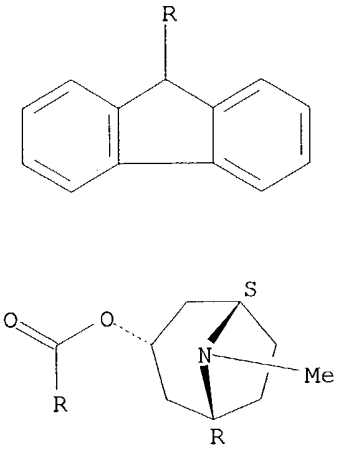

● HCl

L4 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1963:477470 CAPLUS
DOCUMENT NUMBER: 59:77470
ORIGINAL REFERENCE NO.: 59:14475h,14476a
TITLE: Effect of atropine analogs on experimental bronchial spasm
AUTHOR(S): Safrazbekyan, R. R.; Sukasyan, R. S.; Parsadanyan, R. G.
SOURCE: Izvestiya Akademii Nauk Armyanskoi SSR, Biologicheskie Nauki (1963), 16(5), 7-13
CODEN: IABNAW; ISSN: 0367-6579
DOCUMENT TYPE: Journal
LANGUAGE: Russian

AB Expts. were carried out on cats narcotized with hexenal. The bronchomotor tone was measured by Turpaev's method (Fiziol. Zhur. SSSR 39(6), 732-4(1953)). Ten esters of tropine, tested in small doses, weakened the contraction of the bronchus caused by proserine. Methiodide of tropine ester of diphenylmethylacetic acid (0.05-0.2 mg./kg.) weakened the bronchial spasm provoked by proserine; 0.2 mg./kg. prevented spasm development after subsequent administration of proserine. In a dose 0.1 mg./kg. the same compd, inhibited the bronchial spasm observed during irritation of the vagus nerve.

IT **16658-62-1**, Fluorene-9-carboxylic acid, 3α-tropanyl ester, hydrochloride
(preparation of)
RN 16658-62-1 CAPLUS
CN 1αH,5αH-Tropan-3α-ol, fluorene-9-carboxylate (ester), hydrochloride (8CI) (CA INDEX NAME)

Relative stereochemistry.



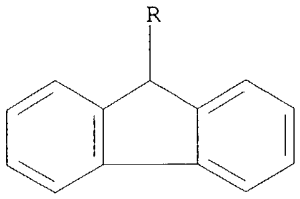

● HCl

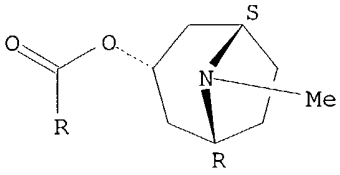
L4 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1963:431335 CAPLUS
DOCUMENT NUMBER: 59:31335
ORIGINAL REFERENCE NO.: 59:5665g-h,5666a
TITLE: Relation of pharmacological action with chemical structure in a series of tropine esters
AUTHOR(S): Mndzhoyan, A. L.; Papayan, G. L.; Safrazbekyan, R. R.; Ogandzhanyan, N. M.; Parsadanyan, R. G.; Sukasyan, R. S.
SOURCE: Izvestiya Akademii Nauk Armyanskoi SSR, Biologicheskie Nauki (1962), 15(12), 3-14
CODEN: IABNAW; ISSN: 0367-6579
DOCUMENT TYPE: Journal
LANGUAGE: Russian

AB cf. CA 55, 9446e. The following esters of tropine with phenylcyclopentanecarboxylic acid (I), diphenylmethyl- (II), diphenylpropyl- (III), phenylpropy]- (IV), and phenylmethylacetic (V) acids, 4-methoxy, 3-methoxy-, 3,4- dimethoxy-, and 3,4,5-trimethoxybenzoic acids, fluorene-9-carboxylic acid (VI) and their hydrochlorides, methiodides, and ethiodides were synthesized to study their pharmacol. effects. The esters of I, II, III, IV, V, and VI show atropine-like properties, they depress acetylcholine contraction of the isolated intestine of cats, and they prevent the hypotensive action of acetylcholine in narcotized cats. Because of their M-cholinolytic effect, the methiodides are more active than the corresponding hydrochlorides and ethiodides. The methiodides of I and II esters decrease the acetytcholine contraction of cat intestine. The M-cholinolytic effect of the esters of benzoic acid derivs. is slight. Methiodides of I and II esters show a papaverine-like effect.

IT **106885-39-6**, Fluorene-9-carboxylic acid, 3α-tropanyl ester (pharmacology of)
RN 106885-39-6 CAPLUS
CN Fluorene-9-carboxylic acid, 3α-tropanyl ester (7CI) (CA INDEX NAME)

Relative stereochemistry.

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FILE 'REGISTRY' ENTERED AT 10:38:56 ON 29 JUL 2004
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L2 0 S L1
L3 24 S L1 FULL

FILE 'CAPLUS' ENTERED AT 10:39:37 ON 29 JUL 2004
L4 9 S L3

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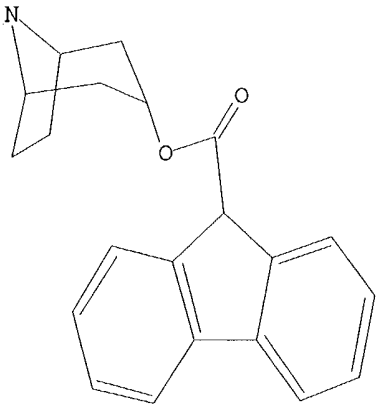
L1 HAS NO ANSWERS
L1 STR




Structure attributes must be viewed using STN Express query preparation.

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